



Bore alignment

Straightness measurement of bore and bearing journals

E950

STRAIGHTNESS THE EASY WAY

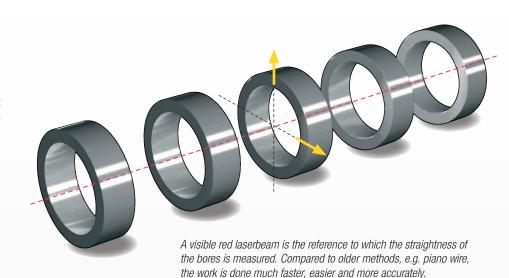
RELIABILITY AND PRECISION

Easy-Laser® E950 makes the control and adjustment work of bearings easier thanks to the wireless detector unit and measurement programs that guides you through the measurement process. All of the parts included in the systems are designed and built for even the most demanding workplace and for easy setup on any machinery. The versatile design solves the straightness measurement problems quickly and with precision for any kind of application. Objects up to 40 m [132 feet] can be measured. The detector reads measurement values with a resolution of 0.001 mm [0.05 mils].

The system comes in four versions:

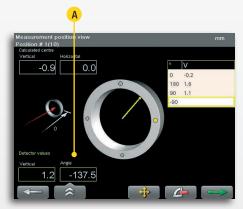
- Easy-Laser® E950-A
- Easy-Laser® E950-B
- Easy-Laser® E950-C
- Easy-Laser® E950-D

Please see last page for more information.

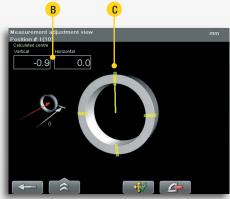




1. You set the number of measurement points and the distance between them in advance, or as the measurement continues. The distances can be equal or individual.



2. The graphics shows the detector direction. Markings on the circle shows active measurement point. Measurement value, and angular position for the detector (A).



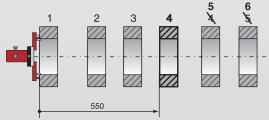
3. "Live" adjustment of the measurement object. Vertical and horizontal value for the object (B). Markings on the circle shows zone for adjustment with live values (C).

VERSATILE PROGRAMS

The straightness programs of system E950 are very versatile, and let you work in the way that suits every job best. You can add, remove and remeasure measurement points at any time during the measurement. Up to 999 points can be handled by the program. You can include both full bores and half bores in any possible combination in one measurement, the program will calculate the correct centre line in all cases.



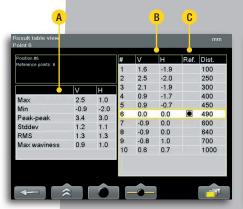
The measurement program includes many different methods for straightness measurement:
A: 1-point measurement, B: 2-point measurement (Note: not available in the USA), C: 4-point measurement, D: Multipoint measurement (also ovality measurement), E: 3-point measurement, F: 3-point measurement with arbitrary angles, G: Multipoint measurement



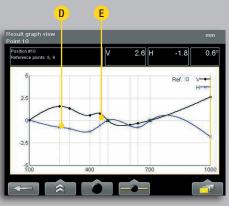
It's easy to add measurement points anywhere on the object in an existing measurement. The following points will be renumbered automatically. If you remove a point the following will be renumbered according to the same principle. If you remeasure a point, the old values will be saved in a history data base for possible later comparison. All this you can do at any time during the measurement!

THE MEASUREMENT RESULT

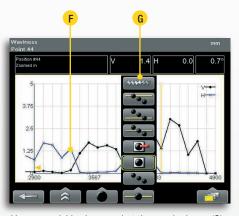
Thanks to the large colour display with clear graphs and measurement data you can evaluate the result directly on site. Any point can be set as reference and you can set an offset to which the centre line will be recalculated. You can also calculate waviness (short and long) and best-fit for the points. If you want, the result can also be checked against a tolerance value. The measurement system takes care of all these complicated calculations for you.



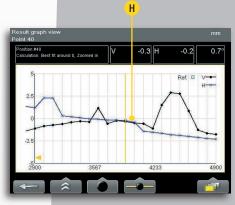
Result display with statistics to the left (A) and table with values to the right (B). The reference points are clearly marked (C).



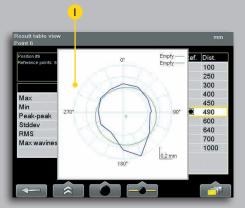
The result can also be shown as a graph (sharp or interpolated). You can zoom in or show the whole graph. Horizontal values (D) and vertical values (E).



You can quickly change what the graph shows (G) for different calculation settings, for example Best fit and Waviness as shown here (F).



The result displayed as "Best fit around 0" (H), and with sharp graph.



By using the Multipoint method you can get a clear view of possible bore ovality (l).

DOCUMENTATION

SAVE TO USB MEMORY

You can easily save desired measurements on your USB memory. This enables you to take it to your computer to print reports whilst leaving the measurement system in place to continue measuring.

SAVING IN THE BUILT-IN MEMORY

You can, of course, save all measurements in the display unit's internal memory. You can then open an old measurement and remeasure those points you adjusted.

CONNECT TO PRINTER

Connect a thermal printer (accessory) and print locally. Good for example when you want to see the valuesbefore and after adjustment, or want to leave a documentation of the measurement on site.

CONNECT TO YOUR COMPUTER

The display unit is connected to the computer via the USB port. It then appears on the desktop as a "Mass Storage Device" which you can easily transfer files to and from.

CREATE A PDF REPORT DIRECTLY

When measurement is complete it is possible to generate a PDF report containing graphs and measurement data directly in the measurement system's display unit. All the information about the measurement object is documented, and you can add your company's logo and address details if you so wish.



EASYLINK™ PC SOFTWARE

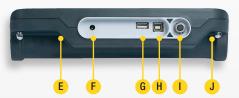
With the EasyLink™ database program you can save and organise all your measurements in one place, produce reports with both data and images and export to your maintenance systems. You can customise what your Excel reports should look like and what data should be visible and where it should be positioned. The program has a clear folder structure, where you drag and drop files from the display unit to the database. Create your own structure with folders for manufacturer, department or machine type for example. The database can also be located on a common server and shared with other users. For extra safety you can use EasyLink™ to make backups of what you have saved in the display unit.

THE PARTS OF THE SYSTEM



A. Two Enter buttons, for left and right-handed users

- B. Large, easy to read colour display
- C. Proper buttons for clear feedback
- D. Thin profile gives a perfect grip for your hands



- E. Robust, rubber coated design
- F. Connection for charger
- G. USB A
- H. USB B
- I. Easy-Laser® measurement equipment
- J. Mounting for shoulder strap

Note: Dust and splash guards for connectors removed on picture.

DISPLAY UNIT

The display unit for the E series enables you to work more efficiently and for longer than ever before thanks to several innovative solutions. It is also ergonomically designed with easy-to-grip rubber cladding and robust construction.

PERSONAL SETTINGS

You can create a user profile where you can save your personal settings. You can also have different settings for different types of measurements, and save them as Favorites, for guick access from the main menu.

LANGUAGE SELECTION

You can choose the language you want to appear on the screen: English, German, French, Spanish, Portuguese, Swedish, Finnish, Russian, Polish, Dutch, Italian, Japanese, Korean and Chinese are available.

ERGONOMIC

The display unit has a thin, easy-to-grip and rubber coated profile that ensures a secure grip. It has large well-spaced buttons that give clear feedback when pushed. In addition, the two Enter buttons make the system suitable for both right and left-handed users. The display screen has clear graphics that guide you through the measurement process.

VALUES PROGRAM

All our measurement systems come with the universal Values program. It works like digital dial indicators. With this, you can, in principle, measure any type of geometry. Many Easy-Laser® users therefore end up using the measurement system in many more places in their operation, than they first intended!

UPGRADING

If you wish to expand functionality in the future, the software in the display unit can be upgraded via the internet or by connecting a USB memory containing the new software.



DETECTOR E7

Detector E7 connects to the display unit via cable or wireless. The unit for wireless communication is easily inserted into one of the connectors on the detector. The substantial and rigid design guarantees stable measurement values and reliable alignment with the greatest precision in even the toughest of environments. The detector is also water and dust proof to classes IP66 and IP67. With built-in electronic inclinometer the

system knows exactly how the detector is positioned. It has a large 20 mm [0.78" sq] 2 axis detector (PSD for the greatest accuracy).



- A. Built-in wireless unit
- B. Threads on both ends (4+4)
- C. PSD (2 axis)

DETECTOR E9

E950-C

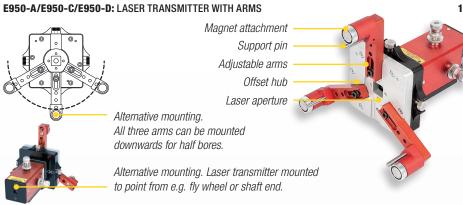
The E9 detector connects to the display unit via cable or wireless (built-in). It is manufactured from a solid aluminium billet for the highest rigidity and measurement stability even in the toughest of environments. Threads on both ends makes the detector very versatile when mounting it for different applications. Rod adapter is included (see

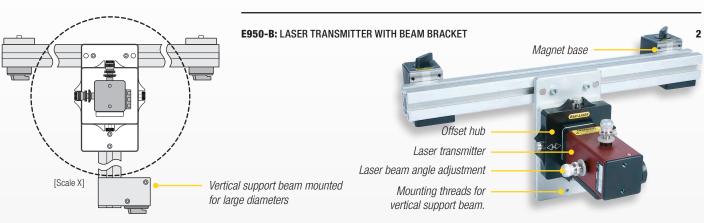
next page). The detector is water and dust proof to class IP67. With built-in electronic inclinometer the system knows exactly how the detector is positioned. It has a large 20 mm [0.78" sq] 2 axis detector (PSD for the greatest accuracy).

LASER TRANSMITTER BRACKETS

The laser transmitter's rigid design assures highest measurement accuracy. The bracket comes in two different versions.

- 1: One has three sets of adjustable arms with magnets to fit different diameters.
- 2: The other spans over the sterntube with a bracket with two or three magnet bases. Fine adjustment of the laser beam in horizontal and vertical direction is made very easy with the offset hub.

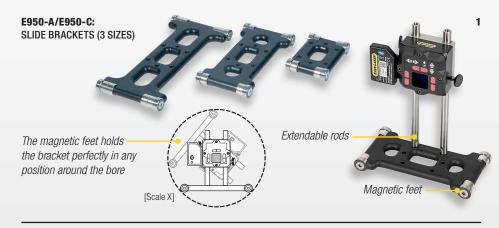


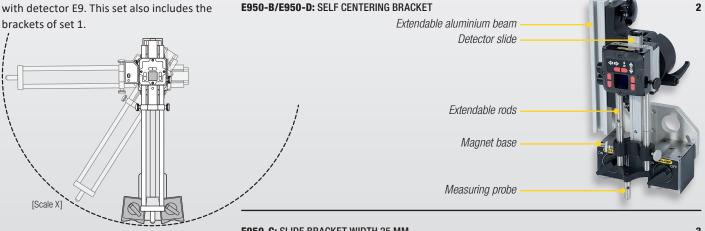


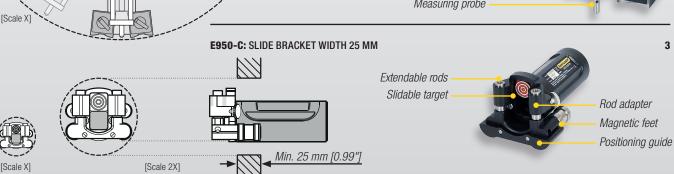
DETECTOR BRACKETS

The detector bracket comes in three versions/sets depending on system.

- 1: Set of three slide brackets with extendable rods for different bore diameters.
- 2: Bracket with magnet bases. Comes with extension beams for large diameters and extension rods for the measuring probe. The detector is rotated and moved with the detector slide.
- 3: Slide bracket with a width of 25 mm [0.99"]. Allows for measurement of bores down to diameter 80 mm [3.15"] when used with detector E9. This set also includes the brackets of set 1.







EXPANDABILITY / ACCESSORIES



LASER TRANSMITTER D22

Laser transmitter D22 can be used to measure flatness, straightness, squareness and parallelism. For example flatness of parting surfaces. The laser beam can sweep 360° with a measurement distance of up to 40 metres [130'] in radius. The laser beam can be angled 90° to the sweep, within 0.005mm/m [0.005mils/INCH]. Part No. 12-0022





Option 1: the laser beam is used for a 360° sweep. Option 2: the laser beam is angled at 90° to the sweep.



LASER TRANSMITTER E30 LONG RANGE

This transmitter makes it possible to measure straightness on very long distances. Up to approximately 100 m [328'] with a 20 mm PSD (like in the E7 and E9), and >200 m [656'] with a 30 mm PSD. Offset hub and arms also needed.

SHAFT ALIGNMENT MEASURING UNITS

Align shafts and couplings with these combined laser-/detector units that are mounted on each side of the coupling. The shaft alignment software is included as standard in the system. Add the S- and M-units, V-brackets with rods and chains, as well as cables or wireless units



LASER TRANSMITTER D25

For straightness measurement up to 40 m [130'], and measurement of parallelism between two or more shafts in gearboxes. Can also be used for rudder bearings where the axial surface is the reference. The laser beam can be angled 90° to the centre line. Part No. 12-0706



ADJUSTABLE MAGNET



Adjustable 0–14mm [0–0.55"] compared to standard magnet level. Part No. 12-0990. Included as standard with E950-A/C/D.

MAGNETIC BRACKET



With three super magnets. For laser transmitter D75. To use on shaft ends, flywheels, etc. Part No. 12-0187

EXTENSION ARMS



Extension arms 500–1000 mm [19.68"–39.36"]. Set for D75 with offset hub. Part No. 12-0282

AXIAL EXTENSION ARMS



Making it possible to reach the Linebore detector from the same side of the bore as the transmitter. Part No. 12-0580

EXTENSION CABLES



5 m [16.4'], Part No. 12-0108 10 m [32.8'], Part No. 12-0180

TUBE ADAPTERS



Adapters mainly for detector E9 and used e.g. for extruder measurements.
Part No. 01-0777

ALU EXTENSION BEAMS



0.5 m [19.68"], Part No.03-0769 0.6 m [23.62"], Part No.03-0770 1.1 m [43.31"], Part No.03-0771

TECHNICAL DATA

System	
Relative humidity	10–95%
E950-A: Weight	14.0 kg [30.8 lbs] (complete system)
E950-A: Carrying case	WxHxD: 550x450x210 mm [21.6x17.7x8.3"]
E950-B: Weight	27.0 kg [59.5 lbs] (complete system)
E950-B: Carrying case	WxHxD: 1220x460x170 mm [48.0x18.1x6.7"]
E950-C: Weight	14.3 kg [31.5 lbs] (complete system)
E950-C: Carrying case E950-D: Weight	WxHxD: 550x450x210 mm [21.6x17.7x8.3"] 18.3 kg [40.3 lbs] (complete system)
E950-D: Weight E950-D: Carrying case	WxHxD: 550x450x210 mm [21.6x17.7x8.3"]
E300 B. Ourrying dusc	WATAD. 000A-00A210 Hilli [21.0A11.17.0.0]
Laser transmitter D75 with offse	et hub
Type of laser	Diode laser
Laser wavelength	630–680 nm, visible red light
Laser Safety Class	Class 2
Output	< 1 mW
Beam diameter Working distance	6 mm [1/4"] at aperture
Type of battery	40-metre [130'] 1 x R14 (C)
Operating time/battery	approx. 15 hours
Operating temperature	0–50 °C
Laser adjustment	D75: 2 ways ±2° (± 35 mm/m), Hub: ±5 mm in two axes
Housing material	Anodized aluminium
Dimensions D75	WxHxD: 60x60x120 mm [2.36x2.36x4.72"]
Dimensions D75 with Hub	WxHxD: 135x135x167 mm [5.31x5.31x6.57"]
Weight	2385 g [84.13 lbs]
l geor transmittor orm est (inclu	dad in system E050_A and E050_C\
Laser transmitter arm set (inclu Measurement diameters	ded in system E950-A and E950-C) Ø 100-500 mm [3.93"-19.68"]
wicasurement diameters	© 100-300 Hilli [0.33 -13.00]
Laser transmitter beam bracket	(included in system E950-B)
Measurement diameters	Ø 250–1000 mm [9.84"–39.37"]
	Up to 4000 mm with extension beams (accessories)
Magnet bases	3 pcs, holding power 800 N/each
Detector E9 (included in system	
Type of detector Wireless communication	2 axis PSD 20x20 mm [0.78" sq] BT Wireless Technology
Resolution	0.001 mm [0.05 mils]
Measurement accuracy	± 1 µm ± 1%
Inclinometers	0.1° resolution
Thermal sensors	± 1° C accuracy
Environmental protection	IP Class 67
Operating temperature	-10–50 °C
Internal battery	Li-lon
Housing material	Anodized aluminium
Dimensions	Ø 45 mm, L=100 mm [Ø 1.77", L=3.94"]
Weight (excl. rod adapter)	180 g [6.3 oz]
Detector E7 (included in system	F950-A F950-B and F950-D)
Type of detector	2 axis PSD 20x20 mm [0.78" sq]
Resolution	0.001 mm [0.05 mils]
Measurement accuracy	± 1 μm ± 1%
Inclinometers	0.1° resolution
	± 1° C accuracy
Environmental protection	IP Class 66 and 67
Environmental protection Operating temperature	IP Class 66 and 67 -10-50 °C
Environmental protection Operating temperature Internal battery	IP Class 66 and 67 -10-50 °C Li-lon
Environmental protection Operating temperature Internal battery Housing material	IP Class 66 and 67 -10–50 °C Li-lon Anodized aluminium
Environmental protection Operating temperature Internal battery Housing material Dimensions	IP Class 66 and 67 -10–50 °C Li-lon Anodized aluminium WxHxD: 60x60x42 mm [2.36x2.36x1.65"]
Environmental protection Operating temperature Internal battery Housing material Dimensions	IP Class 66 and 67 -10–50 °C Li-lon Anodized aluminium
Environmental protection Operating temperature Internal battery Housing material Dimensions Weight	IP Class 66 and 67 -10–50 °C Li-lon Anodized aluminium WxHxD: 60x60x42 mm [2.36x2.36x1.65"] 186 g [6.6 oz]
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Environmental protection Operating temperature Internal battery Housing material Dimensions Weight Self centering detector bracket of Measurement diameters Stroke Magnet bases	IP Class 66 and 67 -10–50 °C Li-lon Anodized aluminium WxhxD: 60x60x42 mm [2.36x2.36x1.65"] 186 g [6.6 oz] for E7 (included in system E950-B and E950-D) Ø 300–1200 mm [11.81"–47.24"] Up to 4000 mm with extension beams and rods (accessories) 60 mm [2.36"] 2 pcs, holding power 800 N/each
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Thermal sensors Environmental protection Operating temperature Internal battery Housing material Dimensions Weight Self centering detector bracket of Measurement diameters Stroke Magnet bases Material Weight Silde brackets (included in system Measurement diameters **For E7 with wireless unit mounted. E9: Ø 120 mm [4.72"]) Material	IP Class 66 and 67 -10–50 °C Li-Ion Anodized aluminium WxHxD: 60x60x42 mm [2.36x2.36x1.65"] 186 g [6.6 oz] for E7 (included in system E950-B and E950-D) Ø 300–1200 mm [11.81"–47.24"] Up to 4000 mm with extension beams and rods (accessories) 60 mm [2.36"] 2 pcs, holding power 800 N/each Anodized aluminium 4400 g [9.7 lbs] (with magnets) m E950-A and E950-C) Small: Ø 140**−250 mm [5.51"−9.84"]

S: 60x90x13 mm [2.36x3.54x0.51"]

M: 80x157x13 mm [3.15x6.18x0.51"]

L: 100x205x13 mm [3.94x8.07x0.51"]

S: 210 g [7.41 oz], M: 335 g [11.82 oz], L: 460 g [16.22 oz]

Dimensions, WxHxD

Weight

Slide bracket width 25 mm, for E9 (included in system E950-C)	
Measurable bore diameters	Ø 80–250 mm [3.15"–9.84"]
Measurable bore width	Min. 25 mm [0.99"]
Material	Anodized aluminium
Dimensions	WxHxD: 79x57x57 mm [3.11x2.24x2.24"]
Weight	204 g [7.2 oz]
Rods	
Length (extendable)	30/60/120/240 mm [1.18"/2.36"/4.72"/9.44"]
Rod set A includes	2x30, 4x60, 4x120, 2x240 mm
Rod set B includes	2x30, 2x60, 2x120, 2x240 mm
Rod set C includes	2x30, 4x60, 4x120, 2x240 mm
Rod set D includes	2x30, 2x60, 2x120, 2x240 mm
Cables	
Туре	With Push/Pull connectors
System cable	Length 2 m [78.7"]
Extension system cable	Length 5 m [196.8"]
USB cable	Length 1.8 m [70.8"]
Display unit E51	100.5 = 11.
Type of display/size	VGA 5.7" colour
Displayed resolution	0.001 mm / 0.05 thou
Internal battery	Heavy duty Li Ion chargeable
Operating time	Appr. 30 hours (Normal operating cycle)
Operating temperature	-10–50 °C
Connections	USB A, USB B, Easy-Laser® units
Wireless communication	BT Wireless Technology
Storage memory	>100,000 measurements
Help functions	Calculator, Unit converter
Environmental protection	IP Class 65
Housing material	PC/ABS + TPE
Dimensions	WxHxD: 250x175x63 [9.8x6.9x2.5"]
Weight (without batteries)	1030 g [2.3 lbs]
Wireless connection unit (included in system E950-A, E950-B and E950-D)	
Wireless communication	BT Wireless Technology
Operating temperature	-10–50 °C
Environmental protection	IP Class 66 and 67
Housing material	ABS
Dimensions	53x32x24 mm [2.1x1.2x0.9"]
Weight	25 q [0.9 oz]
Troight	20 9 [0.0 02]
EasyLink™ Data base software	
System requirements	Windows® XP, Vista, 7, 8, 10. For the export functions,
.,	Excel 2003 or newer must be installed on the PC.

CUSTOM DESIGN

In addition to our already versatile standard system we can also specially adapt measurement systems to suit your needs. Using our own CNC machines we can quickly manufacture brackets just for you. This means for example that brackets for other diameters than mentioned on this page can be manufactured on request.

WARRANTY AND SERVICE CONCEPT

The Easy-Laser® systems have evolved over more than 25 years, through field experience in solving measurement and alignment problems. The systems come with a 3 year limited



lems. The systems come with a 3 year limited warranty. The manufacturing and quality systems are ISO9001 approved. If an incident should occur, our service department normally handles repairs and calibrations within seven working days. This combination makes Easy-Laser® a reliable partner for your business.



EASY-LASER® E950-A

Mainly for diesel engines, compressors, gearboxes and similar applications. Measures bores Ø 140− 500 mm [5.51"-19.68"].*



A complete system contains

- Laser transmitter D75
- **Detector E7**
- Display unit E51
- Wireless unit
- Cable 2 m
- Cable 5 m (extension)
- Offset hub for D75
- Set of offset hub arms, with magnets
- Set of rods A
- Slide bracket Small, Part No. 12-0455
- Slide bracket Medium, Part No. 12-0543
- Slide bracket Large, Part No. 12-0510
- Magnet base
- Large target
- Carrying case. Drop tested. Water and dust tight.

System Easy-Laser® E950-A, Part No. 12-0676



Mainly for propeller shaft drive lines with sterntube. Align sterntube, support bearings, gearbox and engine.

Measures bores Ø 300− 1000 mm [11.81"-39.37"]. You can also add the slide brackets from system E950-A or E950-C to get a more versatile system.*



A complete system contains

- Laser transmitter D75
- **Detector E7**
- Display unit E51
- Wireless unit
- Cable 2 m
- Cable 5 m (extension)
- Offset hub for D75
- Transmitter bracket, with 3 magnet bases
- Set of rods B
- Self centering detector bracket, with 2 magnet bases
- Large target
- Carrying case. Drop tested. Water and dust tight.

System Easy-Laser® E950-B, Part No. 12-0677



EASY-LASER® E950-C

Mainly for diesel engines, compressors, gearboxes and similar applications. One of the brackets has a width of 25 mm [0.99"] to fit in narrow bearing journals. Measures bores Ø 80-500 mm [3.15"-19.68"] as standard, and down to 50 mm [2.00"] with customized brackets. With additional accessories extruder machines can also be measured.*





A complete system contains

- Laser transmitter D75
- **Detector E9**
- Display unit E51 Cable 2 m
- Cable 5 m (extension) Offset hub for D75
- Set of offset hub arms, with magnets
- Set of rods C Rod adapter for detector, with built in target
- Slide bracket, width 25mm, Part No. 12-0768
- Slide bracket Small, Part No. 12-0455
- Slide bracket Medium, Part No. 12-0543
- Slide bracket Large, Part No. 12-0510
- Carrying case. Drop tested. Water and dust tight.

System Easy-Laser® E950-C, Part No. 12-0772

EASY-LASER® E950-D

Mainly for propeller shaft drive lines with sterntube. Align sterntube, support bearings, gearbox and engine.

Measures bores \emptyset 300-1200 mm [11.81"-47.24"].

You can also add the slide brackets from system E950-A or E950-C to get a more versatile system.*



A complete system contains

- Laser transmitter D75
- Detector E7
- Display unit E51
- Wireless unit
- Cable 2 m
- Cable 5 m (extension)
- Offset hub for D75
- Set of offset hub arms, with magnets
- Set of rods D
- Extension arms Linebore
- Self centering detector bracket, with 2 magnet bases
- Large target
- Carrying case. Drop tested. Water and dust tight.

System Easy-Laser® E950-D, Part No. 12-0954



All systems contain

- Manual
- Measuring tape 5 m
- USB Memory stick with documentation
- **USB Cable**

- Battery charger (100-240 V AC)
- Toolbox
- Shoulder strap for Display unit
- Cleaning cloth for optics

*Note: exact measurable diameters also depends on the design of the object to be measured (e.g. where magnets can be placed). Custom designed brackets can extend the range. Ask us for more information.

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